ASSIGNMENT – 3

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a. set a seed (to ensure work reproducibility) and take a random sample of 25 observations and

find the mean Glucose and highest Glucose values of this sample and compare these statistics

with the population statistics of the same variable.

A screenshot of a computer

Description automatically generated

A graph with purple and pink bars

Description automatically generated with medium confidence

b. The 98th percentile of BMI of your sample and the population and compare the results

using charts

A graph of a function

Description automatically generated with medium confidence

***Conclusion:***

The 98th percentile value of BMI for the population and sample size of 25 are almost similar i:e 40.86 and 47.53

c. Using bootstrap (replace= True), create 500 samples (of 150 observation each) from the

population and find the average mean, standard deviation and percentile for BloodPressure and

compare this with these statistics from the population for the same variable. Again, you should

create charts for this comparison

A graph of a person with a red line

Description automatically generated with medium confidence

A graph of a person's body

Description automatically generated with medium confidence

A graph of a person with a red line

Description automatically generated